

**ABSTRACT**  
**RIBOZYMAL NUCLEIC ACID**

A vector system which can be incorporated in liposomes, comprising at least one  
5 DNA vector, the vector or vectors containing a target-cleaving hammerhead ribozymal  
DNA sequence under control of a promoter effective in human cells and which, upon  
transcription to RNA will cleave the mRNA transcribed from a target gene encoding the  
CCR5 or CXCR4 protein.

Preferably the ribozymal DNA contains a first recognition sequence (5' to 3'):  
10 tagatttg or ctcaact, respectively for CCR5 or CXCR4  
and downstream thereof a second recognition sequence  
acttg or acgttgt respectively for CCR5 or CXCR4.